

August 19, 2016

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee  
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC

**Climate Prediction Center**

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of August 22, 2016:

RFC #697 – Install the new Global Standardized Precipitation Index web pages on the RZDM. Was to be implemented on August 8 at 1200Z; new implementation date is August 26.

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The following will be implemented the week of August 29, 2016:

None

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The following RFCs are in progress:

None

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The following RFCs have been delayed:

RFC #703 – mpp-driver v1.3.1 – Add code to copy NAEFS forecast images to \$WEB\_OUT so they'll be visible on the public web page. Was to be implemented on August 15 at 1400Z; VM slowness issues must be resolved before this change may be implemented. New implementation date is TBD.

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The following NCO RFCs to be implemented the week of August 22, 2016 may affect CPC:

RFC #2248 - Modify the Dataflow mirror utility on NCOSRV to bring in additional NESDIS data (burn files and Arctic images) at the request of CPC and WPC. To be implemented on August 25 at 1400Z.

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The following NCO RFCs to be implemented the week of August 29, 2016 may affect CPC:

None

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The following NCO RFCs are in progress and may affect CPC:

None

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**Ocean Prediction Center**

The following accelerated items were implemented this past week:

RFC #711 – nbm\_winds\_2\_gempak.pl v2016.08.17 - Updated the script that pulls National Blend GRIB2 data files and converts it to GEMPAK using a new directory. Done to support OPC's evaluation of National Blend guidance. Implemented on August 17 at 1500Z.

RFC #712 - \$HOME/.fvwm2rc v2016.08.18 - Updated the FVWM window manager configuration file to keep "popup" windows in the foreground, otherwise they may be hidden from the forecaster. Implemented on August 18 at 1445Z.

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The following will be implemented the week of August 22, 2016:

RFC #713 - NA\_cleanup.opc.csh v2016.08.22 - Add a new purge rule to cleanup Arctic web images that are older than 14 days on OPC website. To be implemented on August 22 at 1130Z.

RFC #715 - get\_NavyOFA.csh and RZDM webpages v2016.08.22 - Take the Gulf Stream file that is sent to Dataflow from NAVO and utilized by OPC and make it available on the OPC website. Update pages that link to it. To be implemented on August 22 at 1230Z.

RFC #716 - GRtofs\_AntarcticImages.csh v2016.08.22 - Update working directory and error checking for GRtofs\_AntarcticImages.csh. Script sometimes fails if current working directory is cleaned up by cleaning routine. Assign new working directory where the image file check is done that will not be erased, while the script runs. To be implemented on August 22 at 1300Z.

RFC #717 - probabilities\_by\_wnd\_wav\_cat\_and\_pmsl.pl, prob\_guidance.php, windprob.php, windprob\_gefs.php, gwes.php, web\_monitor\_extended\_config.php v16.08.22 - Update OPC website's probabilistic wind and wave images through the end of the model run (f240 for GWES and f384 for GEFS and NAEFS), as requested by Alaska Region. Remove old pages that only contain a message to update links. To be implemented on August 22 at 1400Z.

RFC #718 - trop\_box.csh, maketrop.csh v2016.08.23 - The scripts that generate VGFs for tropical systems from the official advisories have been updated to create a new VGF that contains the entire track of the tropical cyclone. To be implemented on August 23 at 1100Z.

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The following will be implemented the week of August 29, 2016:

None

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The following RFCs are in progress:

None

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The following NCO RFCs to be implemented the week of August 22, 2016 may affect OPC:

RFC #2229 – Remove weather.noaa.gov system from operations. To be implemented on August 22 at 1400Z.

RFC #2237 - rap.v3.0.0, hrrr.v2.0.0, rtma.v2.4.4, urma.v2.4.4, nam\_smartinit.v3.5.0, narre.v1.0.3 – Upgrade the previously listed models, as

detailed in TINs [http://www.nws.noaa.gov/os/notification/tin16-26rap\\_hrrrr.htm](http://www.nws.noaa.gov/os/notification/tin16-26rap_hrrrr.htm) and [http://www.nws.noaa.gov/os/notification/tin16-27rtma\\_urma\\_sref.htm](http://www.nws.noaa.gov/os/notification/tin16-27rtma_urma_sref.htm) . To be implemented on August 23 at 1200Z.

RFC #2238 – Add the following redirects for the Fall safety campaign:

<http://www.nws.noaa.gov/om/fog/> > [weather.gov/fog](http://weather.gov/fog)

<http://www.nws.noaa.gov/om/winter/cold.shtml> > [weather.gov/cold](http://weather.gov/cold)

<http://www.nws.noaa.gov/om/severeweather/index.shtml> >  
[weather.gov/thunderstorm](http://weather.gov/thunderstorm)

To be implemented on August 23 at 1300Z.

RFC #2240 – product processor v1.1.0 - The production product parser for forecast.weather.gov is currently ignoring products that are corrections. This is a bug fix so that WWA (Watches/Warning/Advisory) corrections (COR) will show up on forecast.weather.gov. To be implemented on August 23 at 1400Z.

RFC #2242 - Update NDFDv2 for digital.weather.gov. This is a fix for an issue where the operational NDFD display web page at <http://digital.weather.gov> and the NIDS e-staging web page at <http://preview.weather.gov/graphical/> are not updating with current NDFD forecast guidance images and data. This includes a fix for a mismatch between the legends and mouse rollover values for ApparentT. To be implemented on August 23 at 1400Z.

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The following NCO RFCs to be implemented the week of August 29, 2016 may affect OPC:

RFC #1924 – decod\_dcears - The decoder for EARS (EUMETSAT Advanced Retransmission Service) data is being upgraded to process CrIS (Cross-track Infrared Sounder), ATMS (Advanced Technology Microwave Sounder), and IASI (Infrared Atmospheric Sounding Interferometer) data in addition to the feeds already being processed. The additional output will be stored in new bufr tanks b021/xx037 (CrIS), b021/xx038 (ATMS), and b021/xx039 (IASI) in the NCEP observational database. To be implemented on August 30 at 1300Z.

RFC #2251 – decod\_dcgns - A new decoder is being implemented to process GPS precipitable water and zenith total delay data. The output will be stored in new bufr tank b012/xx004 in the NCEP observational database. A large portion of this data comes from Earth Networks Inc. (ENI) and is restricted to NOAA only under a contract agreement between NOAA and ENI. To be implemented on August 30 at 1300Z.

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The following NCO RFCs are in progress and may affect OPC:

None

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### **Weather Prediction Center**

The following accelerated items were implemented this past week:

RFC #710 - WPC Interactive Scripts vgf\_toshp, sortvgf\_ero v2016.08.16 - Fixed an issue with generation of GIS shapefiles for the WPC Excessive Rainfall Outlook (ERO) Product. Currently the shapefiles do not display correctly in Arcmap. The higher risk areas are occasionally not visible because they are drawn underneath the lower risk areas. This fix ensures the layers are created in the correct order. Implemented on August 16 at 1500Z.

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The following will be implemented the week of August 22, 2016:

RFC #719 - WPC Winter Weather Desk Scripts wwx\_md1.sh, wwx\_ecens.sh v2016.08.22 - Upgrade the WPC winter weather ensemble to: 1.) add all 21 GEFS ensemble members at half-degree resolution; 2.) add ARW and NMMB high-resolution window runs; and 3.) improve the freezing rain ice liquid ratio using the Freezing Rain Accumulation Model (FRAM). The winter weather ensemble is used to generate WPC's probabilistic winter weather products and probabilistic QPF products. To be implemented on August 22 at 1300Z and should be completed by August 29 at 1500Z.

RFC #720 - WPC Winter Weather Desk Scripts v2016.08.24 - Upgrade scripts used by WPC's winter weather desk to: 1.) improve ice liquid ratio calculations using the Freezing Rain Accumulation Model; and 2.) include generation and dissemination of GRIB2 files containing the standard deviations of WPC's probabilistic snow and ice forecasts. To be implemented beginning August 24 at 1300Z and should be completed by September 14 at 1300Z.

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The following will be implemented the week of August 29, 2016:

None

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The following RFCs are in progress:

RFC #702 - Add the Continuous Ranked Probability Score (CRPS) to the WPC forecast verification system (fvs). This allows WPC to characterize the performance of an entire suite of probabilistic forecast products with a single number. The Hersbach CRPS formulation supports quantile reliability diagrams and decomposition of CRPS into reliability, resolution, and uncertainty components. Implementation began on August 9 at 1200Z and is scheduled to be completed by August 25.

RFC #708 - The Day 4-7 Winter Weather scripts will be upgraded. The cron scripts which run on the Compute Farm and the interactive scripts run by WPC forecasters will be altered to synchronize times stamps for NDFD delivery. Code will also be added to the interactive script run by the forecasters to convert grid files to grib2, and disseminate via DBNET Alert to NCO-Silver Spring. To be implemented beginning August 18 at 1600Z and is scheduled to be completed by September 1.

RFC #709 - The 1-hour snowfall rate scripts will be upgraded to use hourly max snowfall rate and a rime modified Baxter climatological SLR (Snow-to-Liquid Ratio) from the NAMX. A script to generate model implicit snowfall members from the GEFS, ECENS, and SREF will be implemented, as well as a script to compute a super blend of deterministic model implicit snowfall solutions. Both the deterministic and probabilistic forecast output will be evaluated in the 2017 WWE (Winter Weather Experiment) and objectively verified from October through May. To be implemented beginning August 18 at 2100Z and is scheduled to be completed by September 15.

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The following NCO RFCs to be implemented the week of August 22, 2016 may affect WPC:

RFC #2229 – Remove weather.noaa.gov system from operations. To be implemented on August 22 at 1400Z.

RFC #2237 - rap.v3.0.0, hrrr.v2.0.0, rtma.v2.4.4, urma.v2.4.4, nam\_smartinit.v3.5.0, narre.v1.0.3 – Upgrade the previously listed models, as detailed in TINs [http://www.nws.noaa.gov/os/notification/tin16-26rap\\_hrrrr.htm](http://www.nws.noaa.gov/os/notification/tin16-26rap_hrrrr.htm) and [http://www.nws.noaa.gov/os/notification/tin16-27rtma\\_urma\\_sref.htm](http://www.nws.noaa.gov/os/notification/tin16-27rtma_urma_sref.htm) . To be implemented on August 23 at 1200Z.

RFC #2238 – Add the following redirects for the Fall safety campaign:  
<http://www.nws.noaa.gov/om/fog/> > [weather.gov/fog](http://weather.gov/fog)  
<http://www.nws.noaa.gov/om/winter/cold.shtml> > [weather.gov/cold](http://weather.gov/cold)  
<http://www.nws.noaa.gov/om/severeweather/index.shtml> > [weather.gov/thunderstorm](http://weather.gov/thunderstorm)  
To be implemented on August 23 at 1300Z.

RFC #2240 – product processor v1.1.0 - The production product parser for forecast.weather.gov is currently ignoring products that are corrections. This is a bug fix so that WWA (Watches/Warning/Advisory) corrections (COR) will show up on forecast.weather.gov. To be implemented on August 23 at 1400Z.

RFC #2241 – IDP-GIS v1.2.1 – Updates to IDP-GIS, which include: a) modify the continuous ingest configurations for the rfc\_dly\_qpe and rfc\_grid\_qpf map services. These changes are expected to resolve an issue where qpe source images are loaded with incorrect time series attributes resulting in poor server/service performance and intermittently missing data; b) provide a workaround for corrupt or problematic source data for the NHC Tropical Cyclone services (Best Track shapefile) which was generating a segmentation fault error during ingest, resulting in missing data; c) correct cartographic errors with the NHC Tropical Cyclone and rfc\_dly\_qpe services; and d) interactively force a reload of the ArcGIS Server map service cache properties for service 'ESI\_Shoreline\_Aggregate' on server gisapp-op2b to resolve a 404 web request error isolated to that specific server. To be implemented on August 23 at 1400Z.

RFC #2242 - Update NDFDv2 for digital.weather.gov. This is a fix for an issue where the operational NDFD display web page at <http://digital.weather.gov> and the NIDS e-staging web page at <http://preview.weather.gov/graphical/> are not updating with current NDFD forecast guidance images and data. This includes a fix for a mismatch between the legends and mouse rollover values for ApparentT. To be implemented on August 23 at 1400Z.

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this data comes from Earth Networks Inc. (ENI) and is restricted to NOAA only under a contract agreement between NOAA and ENI. To be implemented on August 30 at 1300Z.

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The following NCO RFCs are in progress and may affect WPC:

None

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Please note that security-related RFCs are never listed in the RFC memo.

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---- OPERATIONAL ANNOUNCEMENTS ----

The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at [NCWCP.helpdesk@noaa.gov](mailto:NCWCP.helpdesk@noaa.gov).